Title (en)
METHOD AND SYSTEM FOR MEASURING LOCATION USING ROUND TRIP TIME INFORMATION IN MOBILE COMMUNICATION NETWORK

Title (de)
VERFAHREN UND SYSTEM ZUR POSITIONSMESSUNG UNTER VERWENDUNG VON UMLAUFZEITINFORMATIONEN IN EINEM MOBILKOMMUNIKATIONSNETZ

Title (fr)
PROCÉDÉ ET SYSTÈME POUR EFFECTUER DES MESURES D'EMPLACEMENT AU MOYEN D'INFORMATIONS DE TEMPS DE PARCOURS ALLER-RETOUR DANS UN RÉSEAU DE COMMUNICATION MOBILE

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Abstract (en)
[origin: WO2007133045A1] The present invention discloses a method and system for estimating a position by using round trip time information in a mobile communication network. According to an embodiment of the present invention, a system estimating a position of a mobile terminal includes a base station, computing round trip time information of a mobile terminal; a base station controller, receiving the round trip time information of the mobile terminal; a repeater, expanding a service coverage of the mobile terminal; a round trip time measuring unit, being connected to the repeater and measuring round trip time information of the repeater; and a position estimating device, estimating the position of the mobile terminal by using the round trip time formation of the mobile terminal and the round trip time information measured by the round trip time measuring unit. With the present invention, a position of the mobile terminal can be exactly computed by using round trip time and information, stored in a network management system.

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